http://axp.calumet.purdue.edu/~chronicle

The Chronicle

Vol. 15, No. 4 Wednesday, September 25,1996

Mars Pathfinder at Cape Kennedy

Project in which PUC professor is involved is in testing at center.

BY CHRISTOPHER KOSOVICH
Staff Writer

Although the issue of possible life on Mars is currently a hot topic, it is important to take note of other scientific research into the Martian planet such as that being performed by PUC Professor H. Roland Heydegger.

The project Heydegger helped design with other scientists from the University of Chicago's Laboratory for Astrophysics and Space Research was delivered to Cape Kennedy three weeks ago. The purpose of this mission will be to analyze the rocks and soil on the surface of Mars. It will be launched this December on the Pathfinder mission.

The mission was scheduled to be launched in 1994, but poor weather and budget problems caused a delay. This delay forced the team to wait until this December since the window of opportunity only comes around every two years. Professor Heydegger stressed that the project is not designed to look for life.

The probe is going to land in an ancient floodplain on the surface of Mars. Scientists believe that long ago when there was water on Mars, rocks from a great distance would have been carried by the flowing water to the plain as they would on Earth. This area will provide an opportunity to examine what they hope will be a variety of different rocks. The probe will measure the chemical composition of the rocks and soil and enable the scientists to deduce a history of Mars and how the rocks were formed.

This will not be the first time NASA has sent a probe to the Red Planet. In 1976, NASA landed the Viking probe on the surface of Mars. According to Heydegger, the quality of information obtained from the Viking probe was not that useful due to the level of technology the scientists had at the time. Professor Heydegger predicts that, assuming it survives, the Pathfinder will clarify a great deal of information.

See Mars, Page 5

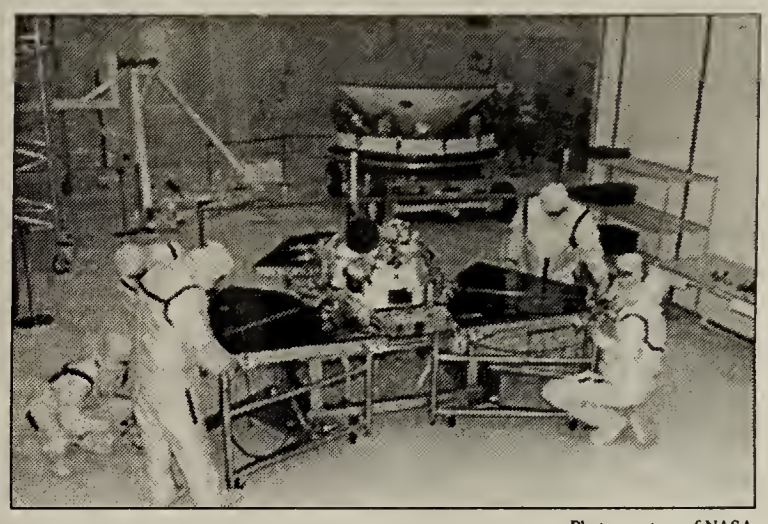


Photo courtesy of NASA

Project specialists work in a clean-room environment to ready the Mars Pathfinder probe for a December launch. The mission will feature contibutions by PUC Professor Roland Heydegger.

Professor's publication honored

PUC Press Release

A book edited by a Purdue University Calumet professor has been awarded national distinction by the Speech Communication Association.

"The U.S. Media and the Middle East: Image and Perception," edited by Purdue Calumet Professor of Communication Yahya R. Kamalipour, has been awarded the "SCA Award for Distinguished Scholarship in International and Intercultural Communication."

The book, published by Greenwood Press (1995), features chapters by experts who explore the disturbing ramifications of portrayal of the Middle East by the U.S. media; analyze the stereotypes and misconceptions Americans have of Arabs, Iranians, and other Middle Easterners; and discuss the far-reaching political and cultural impact of the United States on the Middle East.

"When I was working on this book, I could not have possibly imagined that it would be selected by a national association to receive the book of the year award," said Kamalipour.

"There are thousands of books published annually in the communication field and having one book selected is significant. I don't have words to describe it. It's a great honor to me and to Purdue Calumet."

Focusing on the U.S. media (books, magazines, newspapers, motion pictures, television) coverage and portrayal of Arabs, Palestinians, the Intifada, Middle Eastern women, Iran, Islam, Turkey and the Persian Gulf War, the book also examines the impact of motion picture classics on young children and the perceptions of American students relative

See Book, Page 3

A Healthy Choice™ for cafeteria diners

BY GREGG LEONARD
Editor-in-Chief

Hungry students wishing for healthier food choices in the cafeteria will have a Healthy Choice starting next week.

The Eurest, short for European Restaurant, dining service which runs the cafeteria has contracted with Healthy Choice foodservice to have their entrees available on a weekly basis. If demand is good, they will be available on a regular basis.

Healthy Choice, a division of ConAgra Frozen Foods based-in Roselle, Ill., is well known for their individual frozen food packages available at grocery stores, but they also have been in the foodservice business for seven years now.

"Students, well really our customers, kept asking for healthy items, and Neal (Neal Presser, manager of the Eurest dining, contacted Healthy Choice and arranged to make their offerings available," Helyn Huffman, assistant manager of the campus Eurest service said.

Representatives from Healthy Choice were on campus last Tuesday to hand out samples and inform students of the new menu items.

After sampling the fetucinni alfredo student Cathie Kowalske said, "It would be a good addition to the menu." Karen Rain Kenzie also liked the fetucinni commenting, "Yeah, it's good. I like it."

Lisa Oakley, Registered Dietitian and Operator Sales Specialist for Healthy Choice foodservice, said they had had a very good response to the offerings. "I can't tell you some of the comments they had about the regular cafeteria offerings," Oakley said.

Healthy Choice offers carefully controlled levels of fat, sodium, and cholesterol, plus generous amounts of vitamins, minerals and fiber to help meet the recommended daily intake levels.

General dietary guidelines:

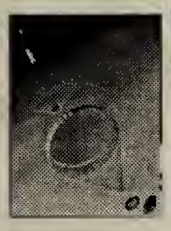
It is recommend that:

- no more than 30% of your calories come from fat
- less than 10% of your calories come from saturated fat
- cholesterol be kept below 300 milligrams per day
- daily sodium intake does not exceed 2,400 milligrams

Inside

More Mars

Spotlight on the Red Planet



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Sports

Volleyball team back on track

See page 8

Entertainment

She's the one

See page 7

News in brief from around campus

Hammond student discusses Washington, D.C. internship

"A Capital Success: Ms. Reason Goes to Washington" is the topic of a Brown Bag Forum scheduled at 11 a.m., Thursday, Sept. 26 in Room 321 of Purdue University Calumet's Student Faculty Library Center.

Purdue Calumet junior Jacquline Reason,of Hammond, discusses her two-week "Women as Leaders" internship in Washington, D.C., served last May. The internship was designed to encourage the participants - 75 women from 48 states - to become leaders from the community to the national level.

Reason, an English education major, attended numerous seminars, career days, speaker presentations and met cabinet members, senators and representatives.

The Brown Bag Forum, sponsored by Purdue Calumet's Women's Studies Program, is a monthly series of programs about issues of special interest to women. Admission is free.

Poli-sci honor society receives national award

Tau Psi, the Purdue University Calumet chapter of the national political science honor society Pi Sigma Alpha, has been awarded the Best Chapter Award, 1995-96 from the national organization.

The award is given in recognition of extraordinary level of activity and dedication of members to the goals of the honor society. The award included a $250 cash prize.

Of the more than 450 active Pi Sigma Alpha chapters, these awards are given only to two chapters in each of three size categories. Tau Psi, which was established in 1994, was chosen as one of the two best chapters among schools with enrollments of 6,000 to 12,000 students.

The chapter advisor is Purdue Calumet Assistant Professor of Political Science Maurice Eisenstein of Munster.

- Compiled by Chronicle staff from press releases

CAUTION

Advertising inserts enclosed

The Chronicle has begun accepting advertising inserts for inclusion in the newspaper.

Easily not noticed, these small flyers can easily slip out of the center of the paper when you pick up your copy of The Chronicle. Please be considerate and don't litter, even if it is inadvertantly. Please recycle the inserts if you don't use them.

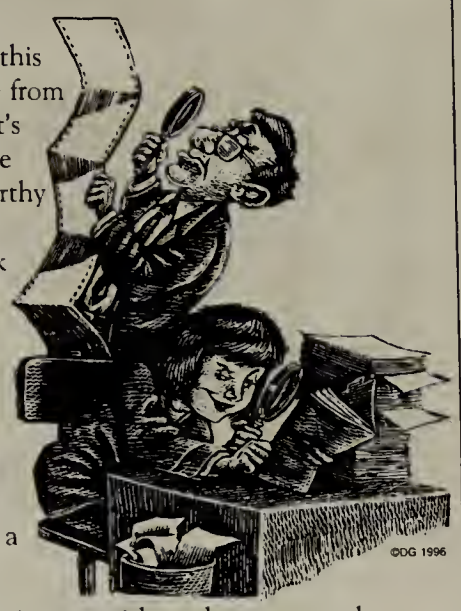
In the future, we will group the inserts so you will know they are there, along with a special full-color section highlighting important information and events.

Thanks, The Chronicle staff.

ADMINISTRATION UPDATE

Analyzing our enrollment—Part II

Our enrollment tells a lot about our institution.



Some 9,284 students are attending Purdue Calumet this fall—a 1.3 percent increase from the previous year—but that's only part of the story. As we reported last week, noteworthy about that figure is that it includes: more degree track students, more students attending off-site classes in south Lake County and, perhaps most importantly, it puts to rest the notion that enrollment gains only take place when our local work force is hampered by a weakened economy.

In this last of a two-part series, we wish to share some other observations.

More younger students

Among traditional age students (23 & younger), 4,422 are enrolled—an increase of 5.1 percent from last year. While our gain among the 18 & younger set is modest, we have nearly 200 more students in the 19-21-year-old age group than we did last fall.

We find that particularly encouraging. While that group includes new students, it also represents a large number of second-year or sophomore status students. Since dropout occurs most frequently between the freshman and sophomore years, retaining more of those students has been a high priority of this administration.

Studies indicate that students who stay enrolled through their sophomore year are extremely likely to continue on and earn their degree.

More full time students

Last week, we reported that our overall enrollment increase featured a 2.5 percent gain in the average credit hour course load of our students. Much of the reason for that increase is due to the fact we have nearly 3 percent more students taking full class loads (12 or more hours) than a year ago.

In fact, for the first time in Purdue Cal history, our undergraduate enrollment includes more full time students (4,228) than part time enrollees (4,090).

More Hispanic students

Our 1,128 Hispanic students this fall represent a 12 percent gain from last year and a whopping 133 percent increase since 1985! Once again, Purdue Calumet is believed to be home to more Latin-American students than any other campus in the state.

With some 1,029 African-American students also attending this semester, students of color comprise 26.4 percent of our enrollment.

Increases among academic majors

Academic departments experiencing increases in the number of majors are: Information Systems and Computer Programming (355 total majors, up 22.8 percent); Behavioral Sciences (519 majors, up 16.1 percent); Foreign Languages and Literatures (46 majors, up 15 percent); Biological Sciences (253 majors, up 13.5 percent); Restaurant, Hotel, Institutional Management and Tourism (180 majors, up 11.1 percent); Electrical Engineering Technology (294 majors, up 10.1 percent); Construction Technology (179 majors, up 9.2 percent); English & Philosophy (137 majors, up 6.2 percent); Management (832 majors, up 6.1 percent); Communication and Creative Arts (192 majors, up 4.9 percent); History and Political Science (191 majors, up 4.3 percent; and Education (391 majors, up 4.0 percent).

At a glance

student organizations

Running Club to form

A non-competitive running club will meet Mondays at 7 p.m. and Saturdays at 11 a.m.at the Main Entrance of K building, for an hour of leisurely, relaxing running/jogging. After each run, members will meet at a local restaurant for food and friendship. For more information contact Constance Karras at (219) 836-5461.

Handwritting analysis program

Saturday, Oct. 5, from 10 a.m. to noon, Certified graphologist, Gloria Cavanaugh will speak on the history of graphology, the squiggles and loops of a script, and how a person's personality and sometimes the physical and emotional health of an individual can be seen in their handwriting. Ms. Cavanaugh is a member of the International Grapho-Analyst Society and is a "certified master."

In addition, women to women is conducting a fundraiser of a personal handwriting analysis (a $75 value) donated by Ms. Cavanaugh. Tickets are available from WTW members, or attend the meeting. For further info, contact Vernita Brooks at 989-2455.

Voter registration

The Criminal Justice Club will sponsor a voter registration driveon Monday Sept 30-Wed Oct. 2, from 9 a.m. to 3 p.m. in the SFLC concourse.

Anyone who will be 18 years old by Oct. 7 is welcome to register.

academics

Chemistry speakers on campus

The Student Affiliate Chapter of the American Chemical Society is sponsoring two lectures by outside speakers :

Professor Duarte deMota Freitas of the Loyola University Department of Chemistry will speak on the topic "Lithium-7 Nuclear Magnetic Resonance Studies of Lithium ion binding to Red Blood Cells in Manic-Depressive and Hypertensive Patients," Tuesday, Oct. 8 from 7 to 7:50 p.m. in G107.

Professor Michael Lipschutz of the Purdue West Lafayette Department of Chemistry will speak on the topic "A New Window on the Solar System: Antarctic Meteorites," Wednesday, Oct. 16, from 7:30-8:20 p.m. in G103.

The second speaker's topic covers some recent sensational press reports of possible "life on Mars" were triggered by some scientific findings reported in the Aug. 18 issue of the journal "Science."

The journal article concerned analysis of Antarctic meteorites believed to be of Martian origin, which may contain fossilized signs of life.

around campus

USIA Fulbright student grants to close scon

The 1997-98 competition for United States Information Agency (USIA) Fulbright and related grants for graduate study or research abroad in academic fields and for practical training in the creative and performing arts will close Oct. 23, 1996.

There are approximately 800 awards which are available to over 100 countries. Most of the grants offered provide round-trip transportation, tuition and maintenance for one academic year.

Applicants must be U.S. citizens at the time of application, and must generally hold a bachelor's degree or its equivalent before the beginning date of the grant.

Application forms and further information may be obtained from college or university Fulbright Program Advisers, IIE's New York headquarters or one of its regional offices in Chicago, Denver, Houston or San Francisco.

The deadline for receipt of applications is Oct. 23, 1996.

Quote of the week

'You couldn't say anyone was distressed. It is one of those things, like running over a cat.'

-Captain Keith Stanley of the luxury liner Queen Elizabeth 2, after his ship "ran over" a whale near Lisbon harbor, Spain.

The Chronicle

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Book

Continued from page 1

to the Middle East.

Greenwood Press plans a national and international distribution of the book in paperback this spring.

Kamalipour also has edited (with Hamid Mowlana) the book, "Mass Media in the Middle East: A Comprehensive Handbook," (Greenwood Press, 1995).

Among other achievements, Kamalipour taught the course, "Global Information Flow and the BBC," at Oxford, England, in July and August, as part of the Purdue University Summer Study Abroad Program.

He received the Edward Mills Award for Outstanding Service in Communication from the Communicators of Northwest Indiana, last May.

Kamalipour holds an associate degree from Marshalltown Community (Iowa) College, a bachelor's degree from Mankato State (Minn.) University, a master's degree from the University of Wisconsin-Superior and a Ph.D. from the University of Missouri-Columbia.

The best college buy for the buck

WASHINGTON (CPS) – Students get the best education for their buck at California Institute of Technology and Indiana's Wabash College, according to U.S. News & World Report.

The magazine recently released its rankings of the best values in education, or schools that offer the best quality education at the most reasonable cost.

That's the third straight year that CalTech tops the best value among national universities. The average discounted cost of attending CalTech is $13,550 per year. University of Rochester and Rice University round out the top three universities.

Wabash College, for the first time, is No. 1 on the list of best values among national liberal arts colleges. It's average discounted cost is $9,349 per year. After Wabash, Grinnell College and Lawrence University offer the best values for colleges.

The best values are calculated by figuring both the "sticker price" and the "discounted price," which is tuition and fees minus the average of need-based grants, the magazine said. The discounted price is most significant when considering many tuition-heavy private colleges.

Considering only the sticker price, the University of North Carolina-Chapel Hill and St. Mary's College of Maryland offer the best value among national universities and colleges.

A handful of schools are tuition-free. They are Berea College in Kentucky; College of the Ozarks in Missouri; Cooper Union in New York; Webb Institute in New York; and the United States Air Force, Coast Guard, Merchant Marine, Military and Naval academies.

RU-486 gains approval from FDA

Controversial abortion pill deemed safe by panel.

NEW YORK (CPS) – The abortion pill, or RU-486, has won conditional approval from the U.S. Food and Drug Administration and soon may be widely available to American women, announced the New York-based Population Council.

RU-486, which causes abortion by inducing uterine contractions, gives women an alternative to surgical abortion during the first seven weeks of pregnancy.

The FDA was willing to grant conditional approval pending further work on labeling and manufacturing of the drug, already available to women in Europe, the group said.

"We are sure we will be able to provide the FDA the outstanding information necessary for approval," the Population Council said.

The FDA deemed the abortion pill to be safe and effective upon review of clinical tests involving 2,480 French women and more than 2,000 American women.

The decision is expected to further heat the abortion debate. Anti-abortion groups had campaigned hard against the drug, arguing that no drug that destroys a fetus could be considered safe.

Dear Lisa:

By Lisa Pajkos

Dear Lisa,

How long do you feel a person should wait before having sexual relations?

– Curious

Dear Curious,

Each couple waits according to when they feel the time is right for them. It's not a matter of a calendar schedule but a matter of emotional and physical readiness. Some people need only a few hours before feeling emotionally and physically ready, some people wait years before they can develop emotional security with another person. The real question is when do you feel secure enough to share this type of bond with another person.

No matter what remember that you need to not only think of when you are ready but consider the feelings of the person. There is more to sexual relations then just sex. You should always practice safe sex, and consider the consequences. Remember that any sex no matter how protected still can spread a sexually transmitted disease (STD,) and just because you're STD free does not mean that your partner is free. Perhaps you both should be tested before any sexual contact takes place. It's better to be safe then to be sorry.

Dear Lisa,

My boyfriend is really great! I love him a lot. He wants to marry me after college and I'm all for that but, the real problem is I HATE HIS PARENTS! What do I do? His mother is crazy and most of all she needs to get a life. What do I say when he decides to pop the question?

– Yes or No??

Dear Yes or No

Are you marrying his parents or him? There will be a lot of people in this world that you won't get along with, but, this is when you need to decide if his parents are the kind of people you can tolerate or not tolerate. However, if his parents cause a great deal of conflict now then maybe your answer should be no. It's not your place to put his parents in their place. It's the other persons responsibility to make sure that they draw the line. He needs to tell his parents when to butt out and when his mother's advice is acceptable. First confront him. If he already knows the problem exists then maybe you should ask him to talk to his parents. If he loves you like he says then it won't be to hard. If he sees no problem then you need to decide if you want to marry a momma's boy or not.

Remember, drop your letters off at the Purdue Calumet Chronicle office, C-344H, in the Student Faculty Library Center; or at the box located in the information center. Perhaps you would rather e-mail it for the most privacy. The address is:

pajkoslr@axp.calumet.purdue.edu

Names will be withheld if requested.

Career Corner

Job fairs, job fairs, everywhere!!!!!

Get ready to participate! October is the month for Job Fairs. Gear up with our interviewing and resume workshops. For more information on the following, come to the Career Develo p.m.ent and Placement Office in room C-349 (library building).

Commonwealth Edison (ComEd) Job Fair

They are looking for Application Developers, Database Administrators, Tech Writers and Training Analysts/Instructional Designers. In other words, Computer Majors!

Tuesday, October 1 from 11 a.m.-7 p.m.

Purdue Calumet Job Fair

Many area companies looking for a wide variety of majors will be here to share information and opportunities available through their businesses.

Thursday, October 20 from noon-5 p.m. in the K-Building (Gym)

Minority Job Fair

The Inland Press Association and the Illinois Press Association will be Interviewing minority students for positions in all areas of the newspaper, including technology, public affairs and business.

Sunday October 20 from 10 a.m.- 4 p.m. at the Fairmont Hotel in downtown Chicago. Preregistration and Resumes required before deadline! There is also a $10.00 fee.

Fall Illinois Collegiate Job Fair

Over 100 of the Midwest's leading companies and agencies will be there looking for Business and Liberal Arts candidates.

Friday October 25 from 9 a.m.-3 p.m. at the College of DuPage in Glen Ellyn, Ill.

Preregistration and Resumes required before deadline! There is also a $5.00 fee.

Allstate Insurance Company

Allstate is hosting an informational seminar at their corporate headquarters in Northbrook, IL. There is limited seating for interested students, so sign up today!

Deadline for sign-up is October 1 in the CD&P Office room C-349

Further information and directions are also available in the CD&P Office.

Interview Workshop

Learn the Do's and Don'ts of interviewing!

September 25 from 4:30 p.m.-6:30 p.m. in room C-321(Library building)

Weekly Resume Workshops!

Bring in a copy of your latest resume for some helpful hints.

Every Tuesday at 10 a.m. & 2 p.m.

Every Wednesday at noon & 6 p.m.

Every Thursday at 9 a.m.& 4 p.m.

Located in the CD&P office, room C-349(Library building)

Comic book for aspiring economists

NEW YORK (CPS) – Wham! Bam! Poppp! Inflation soars, interest rates go up! College students might find the dry principles of macroeconomics easier to grasp if comic books rather than textbooks were on the assigned reading list.

At least that's the hope of the Federal Reserve Bank of New York, which recently published "The Story of Monetary Policy," a 24-page cartoon-style booklet that takes an informal approach to explaining monetary policy.

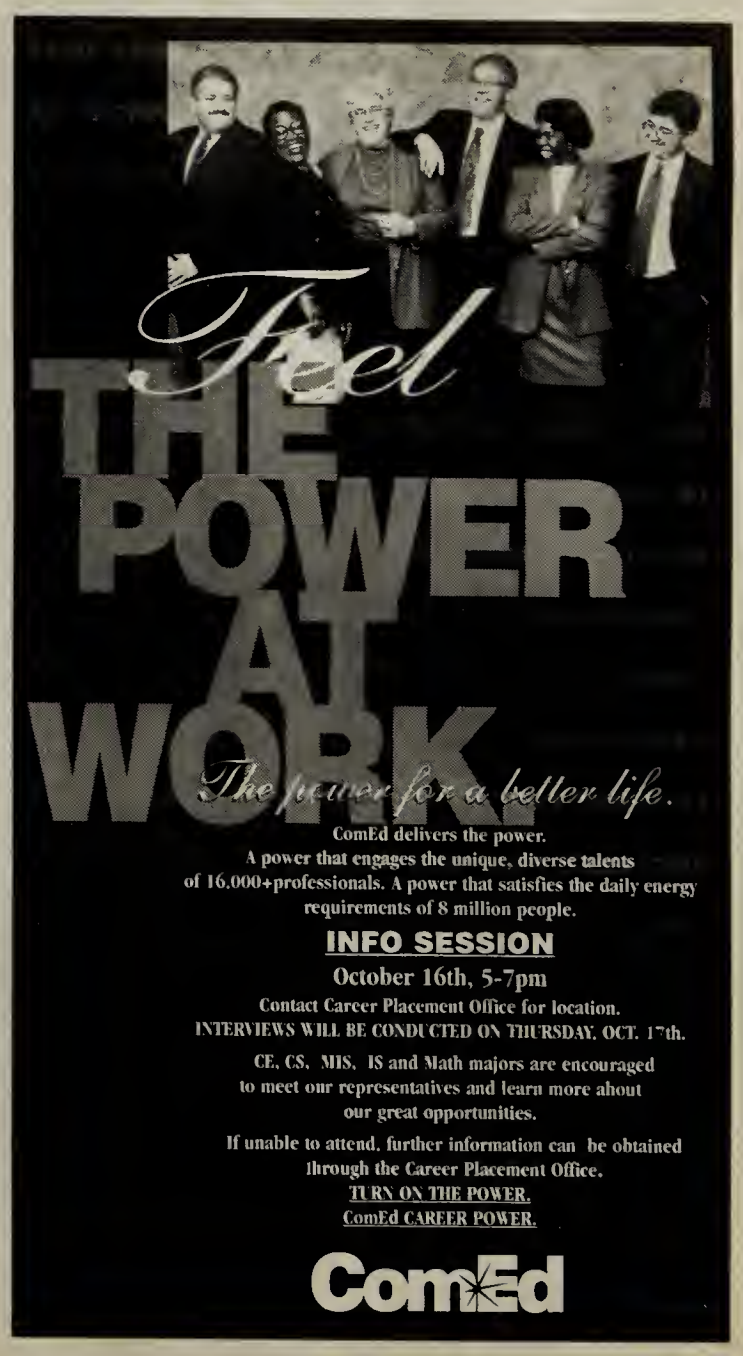
Comic book author Ed Steinberg, an economic professor who also works for the New York Fed, says the book is designed for college or high school students in an introductory economics class.

Income Tax Course

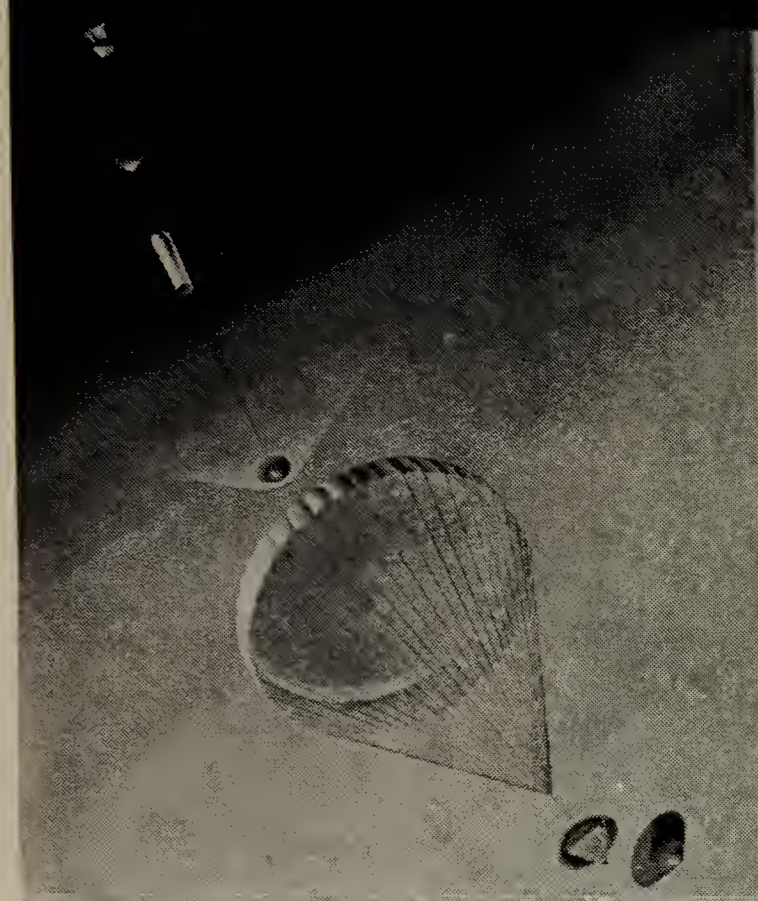
Learn to earn or save money on your own return in 12 weeks. Morning & evening classes available. Fee for books and supplies.

JACKSON HEWITT

(219)-844-6610
Between noon and 4 p.m.


Feel
THE POWER AT WORK
The power for a better life.
ComEd delivers the power.
A power that engages the unique, diverse talents of 16,000+professionals. A power that satisfies the daily energy requirements of 8 million people.
INFO SESSION
October 16th, 5-7pm
Contact Career Placement Office for location.
INTERVIEWS WILL BE CONDUCTED ON THURSDAY, OCT. 17th.
CE, CS, MIS, IS and Math majors are encouraged to meet our representatives and learn more about our great opportunities.
If unable to attend, further information can be obtained through the Career Placement Office.
TURN ON THE POWER.
ComEd CAREER POWER.
ComEd

Mission to Mars



The Mars Pathfinder

The project is the second of NASA's low-cost planetary Discovery missions. The primary objective is to demonstrate the feasibility of low-cost landings on and exploration of the Martian surface. The total cost will be only $280 million.

The scientific objectives include atmospheric entry, long-range and close-up surface imaging, with the general objective to characterize the environment for further exploration.

One of the main components of the mission is the microrover, 'Sojourner.' It is a six-wheeled mobile explorer. It includes a video camera and instrumentation to determine the chemical composition of soil and rocks.

Images courtesy of NASA

The probe

The probe will enter the atmosphere of Mars directly, without going into orbit. It will land with the aid of parachutes, rockets and airbags.

Landing is expected at 60 miles/hour, with the fall cushioned by airbags.

The main part of the lander will unfold into three solar panels, covering an area of 2.5 meters. The lander will serve as a base for the microrover.

The Mars Pathfinder has a website at:
http://mpfwww.jpl.nasa.gov/
For general info:
http://nssdc.gsfc.nasa.gov/planetary/mesur.html
To learn more about the X-ray spectrometer project that Professor Heydegger is involved in:
http://astro.uchicago.edu/home/web/papers/economou/pathfinder

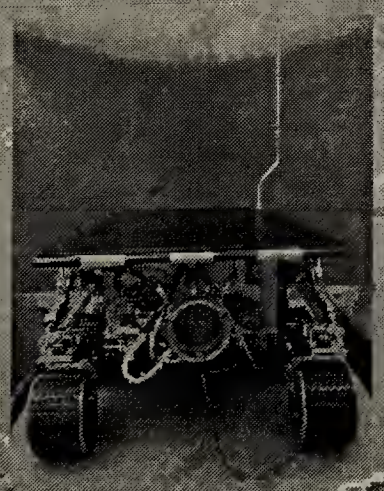
The landing site

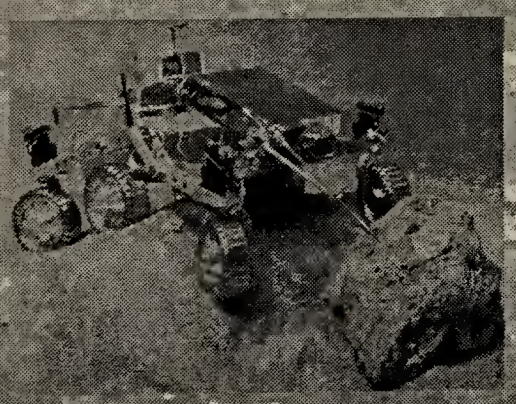
The site will be at 19.5 N, 32.8 W in the area known as Ares Vallis. It is a giant outwash plain, the result of a huge flood (equal to the volume of all the Great Lakes) over a short period of time. The craft is scheduled to arrive July 4, 1997.

For more information about the landing site visit:
http://ic-www.arc.nasa.gov/ic/projects/bayes-group/Atlas/Mars/special/MPF-Ares/
(Yes! you must type the dash after /bayes)

The rover

Less than 1 foot high, the solar powered 'Sojourner' has a top speed of 78feet/hour. Its on-board computer is an 80C85, with 576K of RAM. The rover will be controlled by an earth-based operator.





The alpha-proton-X-ray spectrometer

The APX, for short, will assess the composition of rocks and soil. It is the same instrument which will be used on a Russian mission this year. (http://www.iki.rssi.ru for more info.)

The X-ray spectrometer portion was built by a team from the University of Chicago, including PUC's own Prof. Roland Heydegger.

Life on Mars?

BY CHRISTOPHER KOSOVICH
Staff Writer

A research team composed of NASA scientists believe that they have found evidence of life on Mars, a planet more similar to Earth than any other in our solar system. In a press release NASA administrator Daniel S. Goldin stated, "The evidence is exciting, even compelling, but not conclusive."

The evidence of life was obtained from a sample of a meteorite that was found in Antarctica in 1984. NASA has concluded that the meteorite came from Mars due to the characteristic minerals found in it.

The NASA research team believes that it has found four clues that they believe are evidence of Martian life. One of these clues are carbonate globules found inside the meteorite. The presence of these globules and their chemical composition suggest that they were produced by a living organism.

Another clue are compounds found inside the meteorite such as iron sulfides and magnetite. Both compounds are produced by microscopic organisms on earth and lead scientists to believe that they were also produced by microscopic organisms on Mars. Still another clue is the presence of polycyclic aromatic hydrocarbons (PAHs).

The PAH molecules were found near the carbonate globules and are what complex organic molecules degrade into when microorganisms die. Finally, the research team found pictures of what they believe to be microscopic organisms in the form of fossils.

This evidence, however, has not convinced everyone. Other scientists studying samples from the same meteorite believe that the evidence does not point to signs of life, but rather to naturally occurring chemical reactions in the Mars atmosphere.

One fact that everyone can agree upon is that the only way to find conclusive proof is through further study of the meteorite and continued research of the Martian planet.

The search for life on other planets continues through further research of the now famous Mars meteorite ALH84001 and others like it. Human space exploration, powerful telescopes and all of the other forms of extraterrestrial research may one day answer the question that man has asked for centuries: Is there life on other planets beyond Earth?

For more information:
http:///www.fas.org/mars/index.html

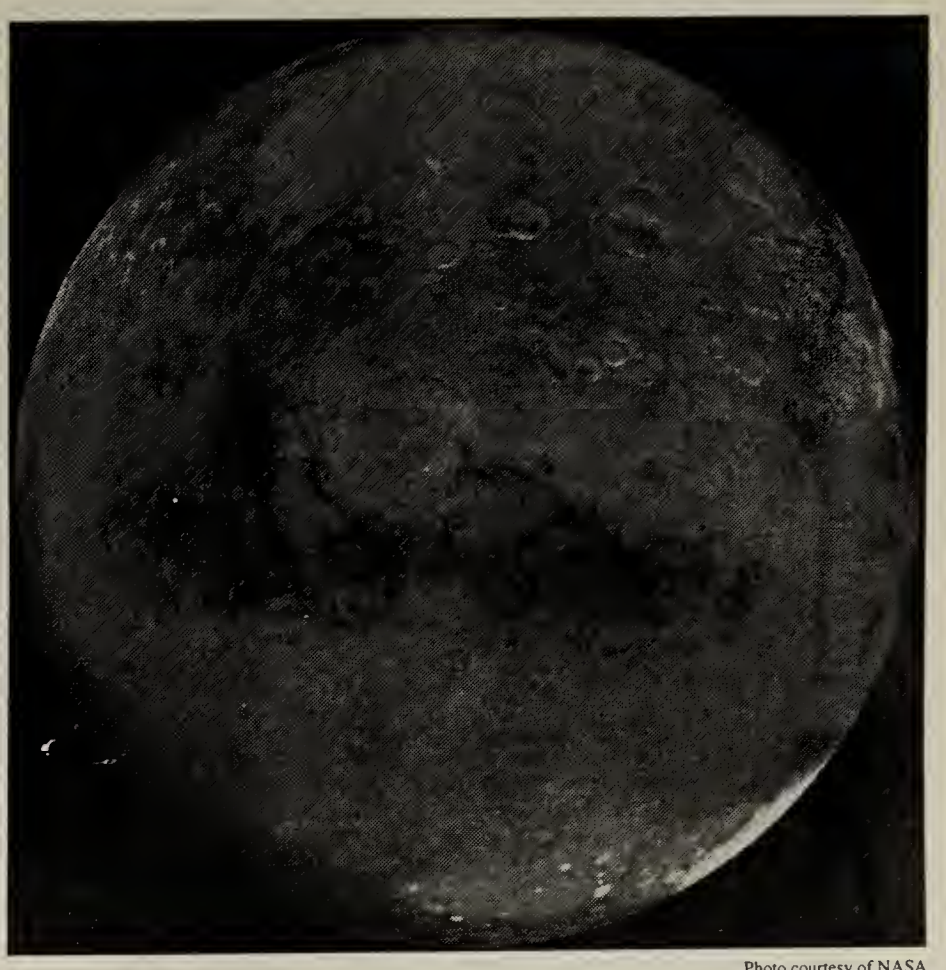


Photo courtesy of NASA

Mars, the red planet, has recently been in the news with sensational reports on the possibility of llife once existing on the planet.

Mars rock might not contain signals of life, scientists say

Knight-Ridder/Tribune Information Systems

WASHINGTON – Then again, maybe not.

Weeks after NASA scientists announced that they had discovered telltale signs of life on a meteorite from Mars, other scientists came to Washington to press their case for another – blander – explanation. They say the signs weren't of life, but of naturally occurring chemical reactions.

"I don't want to second-guess them," said Ralph Harvey, a planetary geologist at Case Western Reserve University at Cleveland. "But I can't explain their work and they can't explain mine."

Harvey's group studied a sample from a meteorite, recovered from Antarctica, that the scientific community generally agrees came from Mars. The NASA group also studied a sample from the same rock, and early this month, said the circumstantial evidence pointed to signs of early Martian life.

Both groups found tiny particles built with carbon inside the meteorite. Carbon is an essential element to life as we know it on Earth, and to NASA, the particles were a sign that life had at one time existed on Mars.

But Harvey theorizes that the carbonate material inside the rock was derived from the Martian atmosphere. It may have gotten there, he said, when the rock suffered an impact, driving tiny amounts of liquids saturated with carbon dioxide into it.

"There was a natural systematic way to build these carbonates up by driving carbon dioxide into the rock," Harvey said.

Harvey, who plans to return to Antarctica in a few months to recover more meteorites, published his results in the scientific journal Nature on July 4, a month ahead of the NASA group.

"When that paper came out, I was all ready to walk away from that rock," he said. But the worldwide hoopla that followed the NASA team's announcement forced him back: As one of the few people who have studied the rock the hardest, he said, he felt he had "the burden to spread the knowledge."

The Nature paper was also written by Harry Y. McSween Jr., of the University of Tennessee's Department of Geological Sciences.

Will further scientific study settle the matter one way or another, or even find a third hypothesis that can explain everything?

One of the NASA team, Richard Zare, a Stanford chemist, stuck to his guns Wednesday about a biological basis for the carbonate particles.

"We continue to believe the best explanation is the one we have offered," he said. "But no one in this group has said this is definitive this is a circumstantial case."

Everett Gibson, senior scientist at Johnson Space Center in Houston, was harsher.

The data from the Harvey-McSween paper is entirely incorrect," said Gibson, who was another member of the NASA team. "I think Harvey failed to look at it completely."

In making NASA's announcement early this month, the team leader, David McKay, said the scientists could find conclusive proof to their theory in six months.

Harvey agreed that further investigation would settle the debate, but added, "It's premature to say we can confirm or deny the findings in a few months. I think we'll have new findings in a few months. But you very rarely find yes or no answers."

Mars

Continued from page 1

Professor Heydegger had no conclusion either way about the possibility of life on Mars because he has not studied any of the samples. He has worked with two of the scientists at Johnson Space Center who are studying the meteorite, and believes that the scientists do good work, but warns against rushing to conclusions. He recalls a similar situation that happened thirty years ago when scientists believed they found organized elements on a different Mars meteorite, but were wrong.

Professor Heydegger believes that assuming the recent findings of NASA are not immediately disproved, interest about the possibility of life will continue. It will also lead NASA to plan more activities for Mars exploration.

This recent news of the NASA findings, however, will have no effect on the December mission since the probe is already at Cape Kennedy and is not designed to find extraterrestrial life anyway. Professor Heydegger said, "In order to look for life, you have to set that as your goal initially."

Professor Heydegger believes that the current mission is practical and scientific and said, "It's wonderful we can do what we can do."

When asked if there were any missions he would like to see take place, Professor Heydegger stated that he would like to see a collaboration with Russia to bring back samples from Mars.

The evidence of life cannot be answered, if at all, unless considerable samples are here on Earth. Professor Heydegger said, "It is possible the rocks have more startling evidence. In such quality and quantity it will be difficult to resolve it (the question of life) to everyone's satisfaction."

Speaker to cover Antarctic meteors

Professor Michael Lipschutz of the Purdue West Lafayette Department of Cbemistry will speak on the topic "A New Window on the Solar System: Antarctic Meteorites," Wednesday, Oct. 16, from 7:30-8:20 p.m. in G-103.

The second speaker's topic covers some recent sensational press reports of possible "life on Mars" were triggered by some scientific findings reported in the Aug. 18 issue of the journal "Science."

The journal article concerned analysis of Antarctic meteorites believed to be of Martian origin, which may contain fossilized signs of life.

Martian discovery resounds for theologians, too

DAVID O'REILLY
Knight-Ridder Newspapers

It came from outer space: a fist-sized rock, most likely from Mars, bearing what could be traces of a primitive life form that stand to expand and challenge mankind's understanding of God. "The wonders of the universe are more fantastic than we thought," said Krister Stendahl, former dean of Harvard Divinity School. Stendahl compares the discovery of polycyclic aromatic hydrocarbons on a meteorite that crashed in Antarctica to Copernicus' finding that Earth is not the center of the cosmos. "This challenges our understanding of God in a positive way' and suggests that God "has other timetables in other parts of the universe,' Stendahl said.

That divine timetable intrigues – and disturbs – Philip Hefner, professor of systematic theology at Chicago's Lutheran School of Theology and editor of Zygon, a journal of science and religion. NASA's discovery of traces of extinct, bacteria-like creatures in a Martian rock "was a discovery of life," he said. "It was also death." Noting that the evidence points to microscopic creatures that became extinct about 3.6 billion years ago, he wonders: "Does that mean God's experiment with life has that pattern? Does that mean that in (God's) fulfillment of the cosmos we, too, might someday go extinct, and He will resume life again on another planet? I think it will raise a lot of questions for theologians." One local Catholic theologian, who asked not to be identified, agreed. "If there is rational life elsewhere in the universe – and I tend to think there is not – then what is their supernatural situation?" he asked. "Could they have been created in a state of original justice, as Adam and Eve were, and then fallen, and be in need of redemption?" Seven hundred years ago the great theologian Thomas Aquinas wondered if Christ could assume "another created nature" besides that of Jesus of Nazareth in order to redeem humankind, the Catholic theologian said. Thomas concluded that Christ could "which raises the interesting question: Could the Son of God assume, say, a Martian nature?"

The theological possibilities are vast, entertaining, even humorous. (One may imagine a Martian Moses going before Pharaoh and demanding: "Let my polycyclic aromatic hydrocarbons go.") English author C.S. Lewis also took a light look at the theology of extraterrestrial life in his 1943 novel, "Perelandra."

Owen Gingerich, professor of astronomy at the Harvard-Smithsonian Center for Astrophysics, likened NASA's discovery to Columbus' discovery of what were to 15th-century Europeans unimaginably strange life forms in the New World. "They even wondered if the Indians had souls, because these were beings entirely different from anything they knew existed," said Gingerich. "This was a traumatic question for Catholicism."

The Chronicle

est. 1983

Gregg A. Leonard, ***Editor-in-Chief***
Maribeth Mask, ***Managing Editor***

Try to guide a wheelchair through this

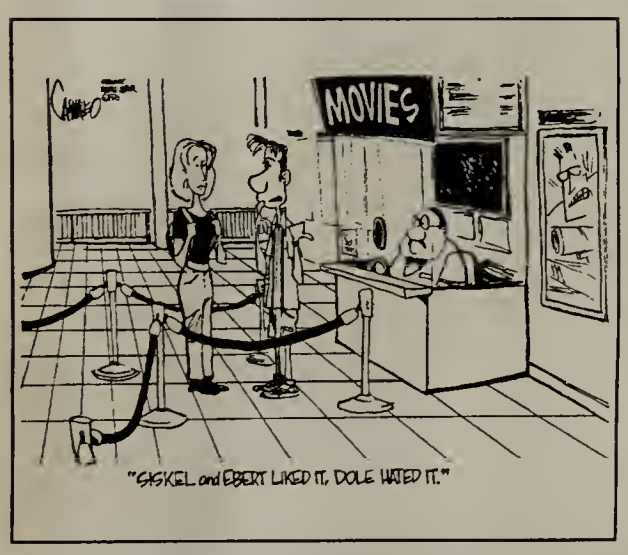
Want to give the University $15 of your hard earned money? Just park your car like one of these pictured below.

Besides causing inconvenience to all students, handicapped access to the campus is greatly harmed by parking over the lines and into walkway areas.

The funny thing about this picture is most of the cars are smaller models.

Please try to be more considerate when parking. You are encroaching on people's walking space. Or maybe someday someone will invade your space and start walking over the hoods of your car

Photo by Christopher Kosovich



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Talking 'bout your generation

Why youths find it hard to vote

Commentary by Scott Gonzales

Last week one of my fellow columnists, Nick Hawkins, pissed and moaned about the lack of substance in this year's political race. This is an age-old problem to be sure, but that's what politics is about. Making a choice, even if there is no choice. Many of the people I work with on this paper have the attitude that they are disillusioned with politics so they won't even discuss it or do anything about it.

The question then is why do youths find it so hard to vote? Why is not getting involved more important than taking a stand? Well let's be honest, it's easier to do nothing than take a stand and many people in their twenties have better things to do.

I'm thirty-five and I've made a point to vote in every election. Not that I think I'm special or anything because I do vote, but because I've always felt that if I didn't vote then I had NO REASON TO COMPLAIN. I've found that the biggest complainers about the President and others in politics come from the mouths of people who haven't seen the inside of a voting booth since Kennedy ran for office.

I have to agree with Hawkins that this year's race leaves little to get excited about, but let's face it, few elections do lately. Contrary to the opinion of those radicals in the College Republicans Office on the third floor of the library building, Dole has little chance of winning this election. On the other hand, what has Clinton done for me lately? Clinton signed a lot of laws into effect the past few weeks but, to be fair, they were going to be signed into law anyway. It just looks more important to do this weeks before an election.

But getting back to the point of involving yourself in this election, getting involved doesn't mean marching to your local headquarters and stuffing envelopes. But that's one way. It doesn't mean calling everyone you know and bombarding them with disparaging remarks about the opposing candidates. It could be something as simple as just being informed, reading a paper, watching the news, and making the best educated choice that one can make in this day and age.

I tried to wait to write an article like this. I vowed I would not get on my political soap box till at least the end of October, but Hawkins' commentary hit me. It made me wonder why so many feel so good not to vote for a president. The apathy I get from many of the people I work with on this paper toward politics is at times insurmountable. "They're all a bunch of crooks." "They never get anything done in Washington anyway." These are some of the answers I get when I ask their views about some political question. But let's be honest: such an attitude doesn't get us very far, or our nation.

We at the paper have been getting complaints from some people about our lack of political stories, and then others complain that The Chronicle is a liberal, left-wing rag that placates to the simplest ideals. I thought that the best way for me to handle this problem was to just write what I could and people who disagreed would surely let us know about it. Last year the paper had Brian Jesson on staff and he would give me a run for my money by always giving an opposing view point.

Maybe I do have some new blood in Mr. Hawkins and I sure hope so. I just wish he had a less apathetic attitude toward problems which now face his generation. Simple solutions like ignoring a problem never solve that problem. Never has, never will, and days spent whining will never get us to a point in this nation where we all hope to be, better off.

Letter to the Editor

Dear Editor,

We are writing this letter in regards to the space allocations awarded by student government or nay we say BSU. This morning we just happened to be walking by the SG office so we decided to stop in and check to see if they were even close to a decision on where each organization was to be placed for the academic year. We found out that they had already made their decisions.

Each organization that has to move into a new office has to be out of office by Friday, Sept. 27. We were wondering where our notification was. Where the listing of where each organization's awarded space was. We were also wondering why it took three weeks for student government to decide where to stick each organization.

The forms were due on Aug. 29 and should have been decided by the end of that week or at the latest 2 weeks later. Now a month later after already setting up the organization for the school year people are supposed to just pack up and move? And when will the notification come out? On Friday? Maybe after they read this letter? Who knows how long it will take student government to get off their buts to do anything this year.

P.S. When will we have time to sit down with each organization in the office to decide how to set up the office?

Thomas Cavanaugh and Tracy La Buda

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Out of this world

'3rd Rock's' Kristen Johnston is no alien to comedy.

BY SCOTT GONZALES
Entertainment Editor

The new start of the television season brings back one of my favorite mid-season replacements of last year, "3rd Rock" from the Sun.

For those of you who haven't seen "3rd Rock" yet, it's about a group of aliens who have been sent by their leader, "The Big Giant Head," to observe and learn the habits of humans.

Simple enough if you're an alien. Well, not really.

Johnston is joined by French Stewart, Joseph-Gordon Levitt and the Emmy-award winning John Lithgow as a four member team of aliens sent to observe and report to a faraway galaxy about the human condition, love, emotions, and everyday actions such as sneezing.

One of the best characters on that show is Sally Solomon, the tough minded, military officer played by Kristen Johnston. Johnston plays the role of Sally with complete abandon and enthusiasm. She's taken a role that is silly and made it hilariously funny.

Photo courtesy of NBC

The cast of NBC's "Third Rock" (Bottom, clockwise from left): KristenJohnston, Joseph Gordon Levitt, French Stewart, John Lithgow, Simbi Khali, Elmarie Wendel, and Jane Curtin.

Her height of six feet makes her stand out, but it's her performances that make us all laugh. "I was a full foot taller than any child my age," says Johnston. "I literally felt like a freak which is another aspect of the role of Sally that I relate to: total outsider."

One moment she's being coy and the next tough. One minute she's looking romantically into her boyfriend's eyes and the next she's kicking his door in, literally, to talk to him about why he stood her up.

Johnston's comedy is as slapstick as Buster Keaton. She's been dropped down stairs, pushed through walls, and as I mentioned before, she kicks in doors. This sort of comedy is usually held in high demand for men but rarely performed to such a degree by women. Johnston is perfecting it on "3rd Rock."

The 28-year-old Johnston is still amazed at all the attention she is getting because of the popular show. Since its January debut, "3rd Rock" has become one of NBC's "Must See TV" favorites.

"3rd Rock's" silly premise and off the wall comedy has struck a cord with the nation and shows no sign of slowing down. "It's hard living in New York as an actor, and doing off-off Broadway plays for a maximum of $200 a week," says Johnston of her recent past.

One part of her success is due to her talent and another part is due to her drop-dead looks. "On-stage I was never the ingenue," explains Johnston. "I was a character actress, a comedian. I played the sixty-year-old neighbor. I wore a fat suit to play the smart alecky high school girl. To be actually allowed to be beautiful is a first for me."

Photo courtesy of NBC

Kristen Johnston's success in the NBC comedy "3rd Rock from the Sun" has aimed her career for the stars.

'I was a full foot taller than any child my age, I literally felt like a freak which is another aspect of (my) role that I totally relate to.'
Kristen Johnston

Johnston's popularity, and the notoriety of "3rd Rock," is definitely on the rise. The third season will bring new challenges to Sally Solomon.

This season she will find more love interests, but at the same time she will also be dumped more often. Sally will also get a job as a secretary this season which also brings her in contact with bosses and employees.

If you know Sally's character, all these situations are sure to cause much distress and conflict in her life, and more laughs for us, the audience.

Cameron Diaz: 'She's the One'

BY SCOTT GONZALEZ
Entertainment Editor

Cameron Diaz emerged on the screen a few years ago in The Mask, a film starring megastar Jim Carrey, and never looked back. With that film and that film alone she moved from working supporting actress to new-found star.

Now at 24 years old, she is in three movies in less than a month, "She's the One" (directed by Ed Burns), "Feeling Minnesota (starring Keaneu Reeves), and "A Head Above Water" (starring Harvey Kietel). Diaz has accomplished what other superstars of the cinema have done: she has become a star.

When I saw her debut in "The Mask," her beauty was stunning and still is, but she could act. She held her own among Jim Carrey's wackiness and the movie's special effects. You noticed her because she was good.

"I take what I do really seriously. I love what I do. It gives me great pleasure, but at the same time it's a huge responsibility," Diaz said in a recent interview.

Diaz started her career as a model 11 years ago signing with the Elite modeling agency and spent her first summer with the agency in Japan. That is where she began her career. In last month's Rolling Stone cover interview Diaz stated that "Models are like movie stars in Japan."

She rode all the fame which being a model in Europe holds. She traveled Japan, Australia, France and Germany. She soon moved on to do commercials in Australia.

While doing commercials she came upon the script for "The Mask" at her agent's office.

She was confident in her ability and in the scope of her screen presence. She was right. The film became a hit, and in doing so, so did everyone associated with the film.

She did what others in her field failed to do; others like Cindy Crawford and Naomi Campbell. She took her modeling career and used what she learned to become an actress.

Her next film, "The Last Supper," became a hit with the critics but did little business at the box office. This February release was yet another dark comedy, starring Bill Paxton and Annabeth Gish.

August brought Diaz back to the forefront as the old girlfriend of Ed Burns' character in the film "She's The One."

'I take what I do very seriously. I love what I do. It gives me great pleasure, but at the same time it's a huge responsibility.' – **Cameron Diaz**

This was Burns' second effort as a writer and director. His first film, "The Brothers McMullen," brought Burns many accolades and an award from the Sundance Festival. As soon as Diaz was cast as the old flame, she made suggestions to Burns on how she would like to round out or add range to what was a one-dimensional character on the page.

"I can't thank her enough," said Burns in a recent interview, "The character is much more complex than I had initially scripted. It's a funnier, more honest part and a lot of that is because of Cameron's input."

Next was her role as the doomed lover of Keaneu Reeves in "Feeling Minnesota." To say these two stars clicked on screen would be an understatement. The chemistry these two felt can be seen in one of the sexiest love scenes found on celluloid this year. What are her feelings for Reeves? "Keaneu's just...Keaneu," said Diaz.

Her next effort to hit the screens later this month is a movie called "Head Above Water," another dark comedy, starring Harvey Kietel. She is also filming "My Best Friend's Wedding" with Julia Roberts in Chicago. This is a very busy lady.

Critics have fallen in love with Diaz and the public has gotten to know her, but she's apprehensive about her fame as a star. "I don't know how people are going to receive me. I don't know what they're going to accept me as," says Diaz.

"So I just sort of, like, go straight ahead. I guess in a way that's just good for me because, if people haven't got an idea of me yet, then I'm open and free to keep pursuing different things."

For some actors the line between being a star and just another supporting character is as wide as the Grand Canyon, but for Cameron Diaz finding roles, quality roles, seems to be no problem at all. Diaz is the one to watch. She's the one.

Lakers back on right track

BY RAYMOND LISKEY
Sports Editor

After a tough conference loss to St. Xavier last Tuesday, the Lakers bounced back to beat Trinity International 3-0 on Wednesday.

The Lakers started strong in games one and two by taking 12-3 and 8-1 leads respectively. Once establishing control, they strolled to two straight wins. Trinity took an early 6-1 lead in game three before the Lakers went on a 14-2 run to seal the victory.

"We knew what we had to do," said senior co-captain Cara Greene.

As a whole, the Lakers played better defensively and served more aggressively. Junior Beth Ambuul led the team while freshman Megan Bell received her first minutes of the year and also earned some aces.

"We played as a team. We were more mentally stable." added Greene.

Photo by Cynthia Govea

Senior co-captain Cara Greene gets ready to spike the ball against Trinity International. The Lakers defeated Trinity 3-0.

Lakers survive in tournament

RAYMOND LISKEY
Sports Editor

Head coach Stacey Zurek and co. traveled to Olivet Nazarene University(ONU) Saturday to participate in the Tiger invitational tournament.

For the Laker Volleyball team, ONU has become a testing ground. According to Zurek, when her team has gone to this tournament, they seemed unable to play up to their potential. Some players even jokingly asked why the team was returning.

"We were aware of our past history there. Usually we lose and go home," said junior Patty Ryan. The Lakers started off playing round robin matches against the other teams in the four team bracket.

The Lakers beat both St. Francis of Ft. Wayne and Judson 2-1, but lost to McKendree College 1-2.

In the semi-finals, the Lakers were paired against conference rival ONU, but lost 0-3 in a close match. According to Zurek, her team was placed in the toughest division.

Each preliminary round robin match went three games and took a toll on her team. The starting six players remained on the court for the duration of most of the games.

"When fatigue sets in, it affects footwork. Our six players need a break, but we can't use that as an excuse," said Zurek.

Junior Beth Ambuul and Ryan were selected to the all-tourney team.

"It wasn't an extraordinary day, but it wasn't a failure," added Ryan.

As of Saturday, the Lakers overall record was 9-5, with a 1-1 conference record.

Behind the Scenes

A look at some of the people that make PUC athletics possible

Chris Eaton, Manager for Lakers and Lady Lakers basketball teams

Chris has been managing since he was a sophomore in high school. Chris has chosen basketball to "be around the game he loves the most."

As a manager Chris sets up equipment, uniforms and any last minute game preparations. Chris also takes a hands-on role with the team as he sometimes runs drills with the team during practice.

In his third year in school, Chris is studying elementary education. He plans to be able to use the knowledge he gains at PUC to teach and become a coach.

When asked about his fondest memories at PUC, Chris mentioned two things: the trip to Lithuania with the Lakers and the trip to Jackson, TN with the Lady Lakers.

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4:45 - 5:30 p.m. Step
5:45 - 6:45 p.m. Body Sculpt
7 - 8 p.m. Step II

Tuesday
4:45 - 5:30 p.m. Body Sculpt
7 - 7:55 p.m. Step II

Wednesday
11:30 - 12:30 Interval Step
4:45 - 5:30 p.m. Step
5:45 - 6:45 p.m. Body Sculpt
7 - 8 p.m. Step II

Thursday
4:45 - 5:30 p.m. Body Sculpt
7 -7:55 p.m. Step II

Friday
11:30 a.m. - 12:30 p.m. Step
4:45 - 5:30 p.m. Step

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